

SIEMENS



CCMx1315-LP

1/3" 1.3 Megapixel CCD Colour IP Camera

Configuration Manual

Building Technologies

Fire Safety & Security Products

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Siemens Building Technologies
Fire & Security Products GmbH & Co. oHG
D-76181 Karlsruhe

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About this document

This manual provides the information you will need in order to install and configure a Solaris™ Dome unit. We recommend that you read through it at least once before you begin the installation.

Orientation guide



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1 Safety

1.1 Target readers

The instructions in this document are designed only for the following target readers:

Target readers	Qualification	Activity	Condition of the product
Operational startup personnel	Technical training for building or electrical installations. Training on the product is recommended.	Puts the product into operation for the first time, or changes the existing configuration.	The product is installed but not yet configured, or the existing configuration is to be changed.

1.2 General safety precautions

- Read the general safety precautions before installing, configuring and operating the device.
- Keep this document for reference.
- Always pass this document on together with the product.
- Please also take into account any additional country-specific, local safety standards or regulations concerning project planning, operation and disposal of the product.
- Follow all warnings and instructions marked on the device.

Liability claim

- Do not make any changes or modifications to the device unless they have been approved by the manufacturer.
- Use only spare parts and accessories that have been approved by the manufacturer.

1.2.1 Transport

Damage during transport

- Keep the packaging material for future transportation.
- Do not expose the device to mechanical vibrations or shocks.

1.2.2 Installation

- It is recommended that all preparatory work (e.g. fitting of accessories) be carried out in a workshop prior to final installation.

Radio interference with other devices in the environment

- When handling modules that are susceptible to electrostatic discharge, please observe the ESD guidelines.

Damage due to unsuitable mounting location

- The environmental conditions recommended by the manufacturer must be observed. See Section 3: Specifications.
- Do not operate the device in dusty places.
- Do not expose the device to mechanical vibrations or shocks.
- Protect the device against moisture.
- Place the unit on a stable surface that will hold its weight.
- The mounting surface must be solid and non-combustible.
- Do not operate the device close to sources of powerful electromagnetic radiation.

Danger of electrical shock due to incorrect connection

- Connect the device only to power sources with the specified voltage. Voltage supply requirements can be found on the mains adapter.
- Make sure the device is permanently connected to the electricity supply; a readily accessible disconnect device must be provided.
- This device is designed to work with 12 V DC / 24 V AC-systems or PoE. Do not connect the device to any other power systems.

1.2.3 Cleaning

Do not touch the imaging surface of sensor. Use a soft cloth moistened with alcohol to clean the surface if it is touched accidentally.

1.3 Meaning of the signal words

The severity of a hazard is indicated by the following written signal words.

Signal word	Type of risk
DANGER	Imminent danger of death or severe bodily injury
WARNING	Possible danger of death or severe bodily harm
CAUTION	There is a risk of minor to medium injuries or damage to property.
IMPORTANT	Malfunctioning may result

1.4 Meaning of the hazard symbols

The nature of the hazard is indicated by icons.



Warning of a hazard



Warning of dangerous electrical voltage



Tips and information

2 EU directives

The product complies with the requirements of the following EU directives. The EU declaration of conformity is available from:

Siemens Building Technologies
Fire & Security Products GmbH & Co. oHG
76181 Karlsruhe
Germany

European Directive 2004/108/EC “Electromagnetic Compatibility”

Compliance with the European Directive 2004/108/EC has been proven by testing according to the following standards:

Emitted interference:	EN 61000-6-3 EN 55022 Class B
Resistance to interference:	EN 50130-4

3 Specifications

Image System	Description
Image sensor	1/3" progressive ExviewHAD CCD, 1.3 Megapixels
Effective pixels	1280 (H) x 960 (V)
Image compression method	Motion JPEG/ MPEG4
Image frame rate	SXGA: 1280 x 960 at 12.5 fps max. VGA: 640 x 480, QVGA: 320 x 240 at 25 fps max
Cropping window	Simultaneous video transmission of up to 5 independent cropping windows, free configuration in size and position at 5 fps max. (MJPEG mode only)
Video out(for installation)	1 Vpp, 75 Ohm BNC composite video, (either CVBS or IP video selectable by switch)
Electronic	
Sync system	Internal
Lens mount	CS mount
Gamma correction	0.45/1.0
Min illumination	Colour 0.4 lx (F1.2, AGC ON), BW 0.2 lx (AGC ON) (CCBS1315-LP only)
White balance	Auto (2500 K - 10000 K) / Manual (1500 K - 15000K) / Preset
Electronic shutter	1/25 - 1/10,000 sec; support long shutter up to 4 s
BLC	On/off, BLC1 - BLC6
Audio	Two way Audio; Full duplex, G.726 selectable
Alarm	1x Alarm in, 1x Alarm out, 1 x B/W switch in
RS-485	Yes
SD card slot	Support up to 2 GB SD card (2 GB SD-card included at delivery)
Internal Microphone	Yes
Motion detection	MD window selected by mouse & 3 level sensitivity
Power Supply	
Power requirement	12 V DC / 24 V AC, 50 Hz or PoE
Power consumption	CCMC1315-LP: < 7 W, CCMS1315-LP: < 8.5 W
Power connector	Screw-less terminal block
Environment	
Operating temperature	-10 to +50 °C
Operating humidity	80 % RH
Storage temperature	-20 to +60 °C
Network	
Ethernet	1 x 10/100 based-T Ethernet connection for LAN/WAN
Internet protocol	TCP/IP, UDP, HTTP, SMTP, DNS, DHCP, NTP, ARP, ICMP, DDNS, FTPc, FTPs, DHCPc, RTSP, RTCP, RTP, IGMPv3
Security	Multiple password for Admin, Advanced Users and Users
Control interface	IE browser 6.0 or above
I/O connector	
Network port	RJ45 with control LED
Video output	BNC (CVBS out selectable by switch)
AI lens connector	1 x 4 pin jack (located on side)
Audio in & out connector	3.5 mm phone jack
Alarm connector	2 x alarm in / 1x alarm out
Power connector	3 pins spring terminal block
LED	Orange stand for Network online, Green stand for system ready
RS485	2- pin spring terminal (for Telemetry Receiver using SCU protocol)
Mechanism	
Dimensions (LxWxH)	150 x 66 x 64 mm
Weight	0.55 kg

4 Ordering data

Type	Part no.	Designation	Weight
CCMC1315-LP	S54561-C80-A1	1/3" 1.3 MP Colour IP Camera 12 V DC / 24 V AC, 50 Hz or PoE	0.55 kg
CCMS1315-LP	S54561-C80-A2	1/3" 1.3 MP Day/Night IP Camera 12 V DC / 24 V AC, 50 Hz or PoE	0.55 kg
Accessories, not included in delivery			
CLVD1316/3-8	S54561-B300-A1	1/3" Megapixel varifocal lens, direct-drive iris, F1.0, 3 - 8 mm	0.08 kg
CLVM1316/3-8	S54561-B301-A1	1/3" Megapixel varifocal lens, manual iris, F1.0, 3 - 8 mm	0.07 kg
CLVD1316/5-50	S54561-B302-A1	1/3" Megapixel varifocal lens, direct-drive iris, F1.4, 5 - 50 mm	0.08 kg
CLVM1316/5-50	S54561-B303-A1	1/3" Megapixel varifocal lens, manual iris, F1.4, 5 - 50 mm	0.06 kg

4.1 Package contents

- CCD IP camera
- Documentation CD
- Utilities CD
- Installation instruction (English, German, French, Spanish, Italian)
- SD card (2 GB)
- Hexagonal wrench
- Torx wrench T6
- Lens connector

5 Camera part and connector definition

5.1 Camera part definition

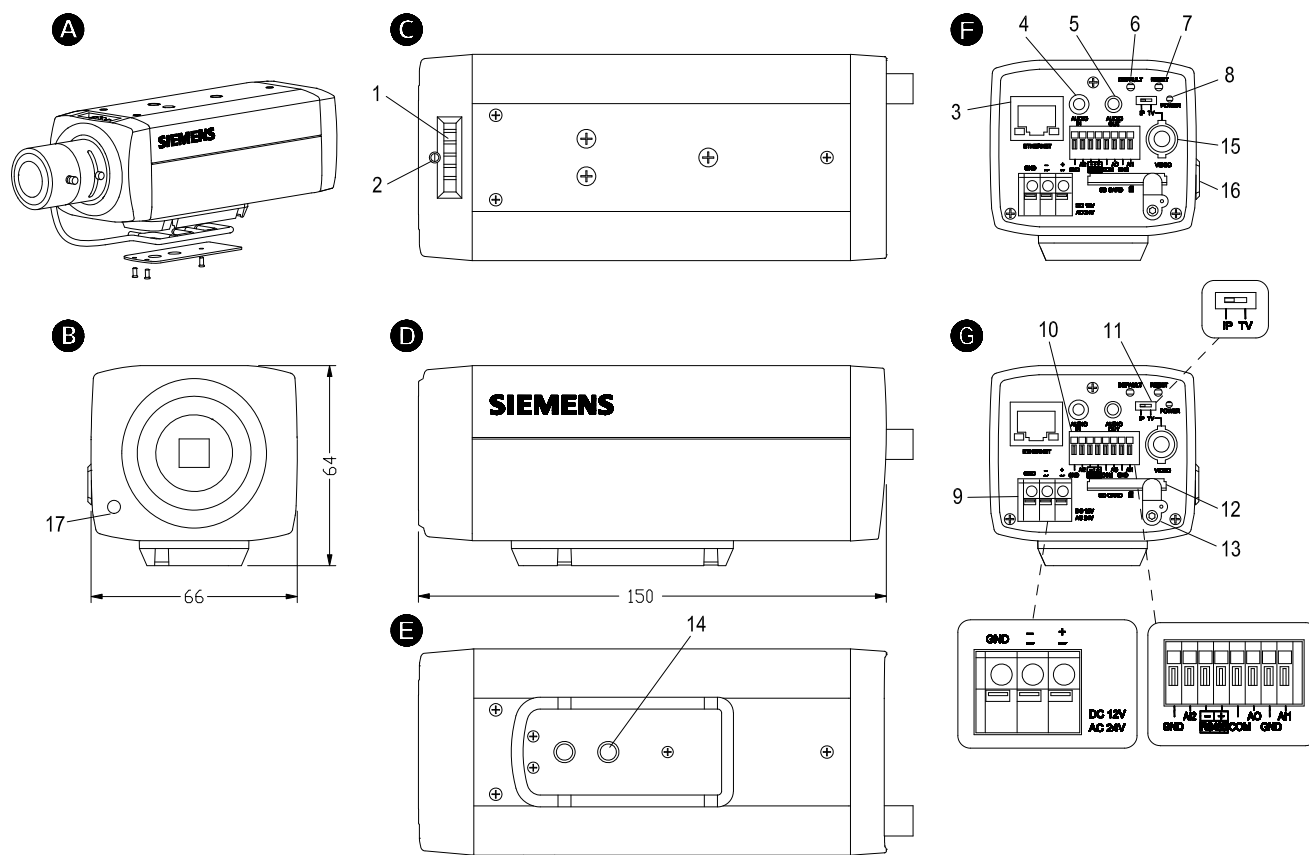
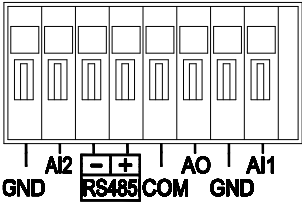


Fig. 1 Camera part definition

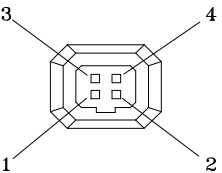
1	Back-focus adjust ring	10	Digital I/O terminal
2	Back-focus lock screw	11	IP/TV selection
3	RJ45 Ethernet connector	12	SD card slot
4	Audio input (ø3.5mm)	13	SD card protection
5	Audio out (ø3.5mm)	14	1/4" inch tripod mount hole
6	SW for default	15	BNC connector
7	SW for reset	16	IRIS connector
8	Power indicator	17	Microphone
9	DC12V/AC24V power terminal		

5.2 Connector pin definition

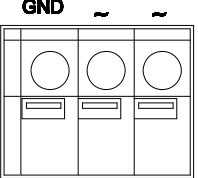
5.2.1 Digital I/O terminal

	GND	1.External alarm input-2
	AI2	2.Becoming BW/CL enforced input when the Digital Input Mode is set to BW Mode in the Configuration-Alarm page
	RS485- / +	RS485 signal output port for telemetry control
	COM	Alarm output port
	AO	
	GND	External alarm input-1
	AI1	

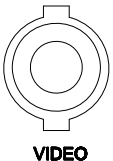
5.2.2 DC Auto Iris port

	PIN 1	Damp -
	PIN 2	Damp +
	PIN 3	Drive +
	PIN 4	Drive


5.2.3 Power IN connector

 <p>DC 12V AC 24V</p>	RED: Power +	Power: 12 V DC or 24 V AC
	WHITE: Power -	


5.2.4 Video output connector

	Video Signal Output	Composite video output
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5.2.5 IP/TV switch

	IP	Video out through Ethernet
	TV	BNC composite video out for installation purposes

5.2.6 Default/reset buttons

	DEFAULT	Return to factory default by pressing button for 5 seconds
	RESET	System re-start

6 Installing the camera

6.1 Precautions

SD memory card



Please install the SD memory card before switching on the camera as the system cannot detect the insertion of an SD card during operation.

- There is a limit to the number of rewrites that is possible with the SD memory card. Replacing the SD memory card when performing periodic maintenance of the camera is recommended.
- The camera supports the following SD memory cards. Do not use memory cards with other specifications. SD memory card: 64, 128, 256, and 512 MB, 1 and 2 GB SD memory cards (3.3 V) supported.
Physical interface: Part 1. Physical Layer Specification; Version 1.01
- Images may not be recorded or read correctly if an unsupported SD memory card is used with the camera.
- Carefully read the manual, precautions on use, and any other information supplied with a purchased memory card.
- An SD memory card can be used for the loop recording of images. The life-span (number of rewrites possible) of an SD memory card is greatly affected by the capacity of the SD memory card. The use of a 128, 256, or 512 MB, 1 or 2 GB large-capacity SD memory card is recommended for loop recording.
- Do not use a memory card containing the data recorded by another device with the camera as this may result in the camera not functioning correctly.
- Do not modify, overwrite the data, or change the folder name of an SD memory card. It may result in the camera not functioning correctly.
- Data recorded with the camera do not comply with the image file format Exit and the DCF standard. If the SD memory card is to be removed to play images, use a personal computer to play the images. Other devices may not be capable of doing so.

Power adaptor



CAUTION

Be sure to use only a suitable power adaptor. Using a wrong power adaptor may cause the camera to malfunction, heat up, or catch fire. Before using the power adaptor, carefully read and observe the Important Safety Instructions and the notes below.

- Do not allow the connectors on the power adaptor to come into contact with any other metal object as this may result in short circuit.
- To connect the power adaptor, firmly insert the plug end of the cable into the power terminal. Do not insert the plug into other jacks as this may cause a malfunction.
- When removing the connection cable, disconnect the cable by holding its plug. Do not disconnect the cable by pulling on the cable.
- Do not drop the power adaptor or subject it to strong impact.
- Do not use the power adaptor in hot and humid places.

- Temperature increasing on the surface of the adapter is normal. Before moving the adapter to another location, unplug it from the wall outlet, and wait until its temperature decreases.
- Buzzing noises may come from inside. This does not indicate malfunction.
- Using the power adapter near a radio, TV, or cell phone may cause interference. Use the adapter at sufficient distances from these devices.

Specifications

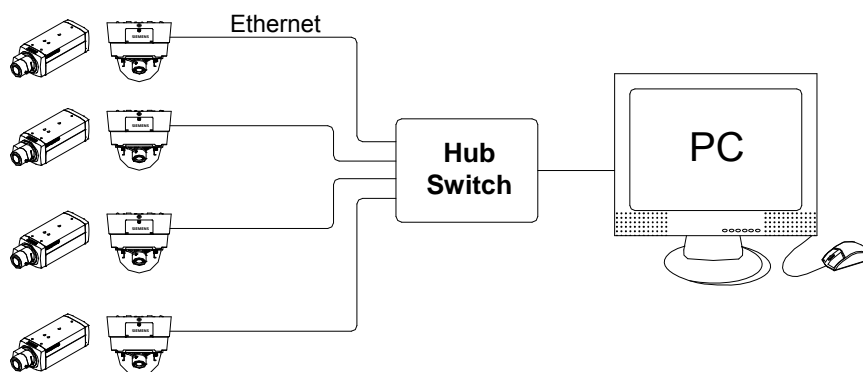
Power requirement

Rated input: AC 24V /DC 12V, 1A

6.2 Concept of the network camera

The network camera can deliver video images and audio in real time using the Internet or an intranet. The camera is equipped with Ethernet (RJ-45) 10BASE-T/100BASE-TX network interfaces.

It can be used in various indoor environments.



6.3 Setting network camera environment

Items needed for network camera monitoring system

- Administrator's personal computer
The personal computer that is given all authorities for setting, operating, monitoring and other functions with the network camera is called the "administrator's personal computer" in this manual.
- Recommended personal computer operating conditions
 - Windows Vista or XP as OS
 - Internet Explorer Version 6.0 or later
 - CPU: Intel Pentium 4.2 GHz or higher
 - Memory: 512 MB or more
- Network camera
Please purchase the required and appropriate number of cameras corresponding to the desired camera installation locations.
- Connection equipment such as a hub and router suiting the network system environment and LAN cable, a Cat 5e LAN cable is recommended.
- Camera search application "IpFinder"
Install this application from the CD-ROM supplied as an accessory. (Double-click "ipfinder_Setup.exe" in the CD-ROM and install the application in accordance with the instructions on the screen)

6.4 Connecting the camera and personal computer via network

IP address

To connect to the network, the administrator needs to set the network camera IP address.

There are two options to set the IP address.

- Entering an IP address manually (factory default)
 - Obtaining an IP address automatically from the DHCP server
- Entering the IP address manually.
Your camera is set to this mode at the factory with the IP address: 192.168.0.10, so you need to enter this IP number manually to access the camera for the first time.
 - Obtaining an IP address automatically from the DHCP server
If your network uses a DHCP server, you do not need to change the IP address of the camera. But be sure to set DHCP ON/OFF to ON in "Network settings/Basic".

NOTE

The IP address of the network camera is sometimes updated or changed from time to time when the DHCP server is used. For this reason, the network camera sometimes cannot be connected due to an IP address change if the network camera is accessed using the previously set IP address.

To enable accessing the network camera in this case, a fixed IP address needs to be set with the network camera by setting an IP address through manual input. Please read the instruction manuals of the network system equipment – such as the router, hub and modem – also carefully.

When entering the IP address manually, set DHCP ON/OFF to OFF in "Network/Basic Settings" and enter the IP address, subnet mask, default gateway, primary DNS and secondary DNS.



Connection configuration

Two configurations are available for connection of network cameras.

- Crossover connection
- Connection via a hub, switch, or router

NOTE

- You do not need to assign an IP address to a hub.
- The IP address of your camera after purchasing from the store is automatically set to 192.168.0.10 in case DHCP is not used. Set the IP address of your personal computer in the same subnet. (The network segment must be the same segment when directly connecting using a cross cable or connecting through the hub.) When connecting more than one camera, connect each camera using IP address 192.168.0.10 and change the IP addresses of the second and subsequent cameras to other IP addresses, such as 192.168.0.11.
- You can also use the LAN port of your broadband router. However, when using the broadband router, if the DHCP server function is set to "ON", turn on the power after connecting the camera with the router. The camera gets the IP address from the router's DHCP server and it may not be 192.168.0.10.



For more information, read your user's guide for broadband router.

It is also recommended to set the computer's IP address from the router's DHCP server.

For more information, read your computer's user's guide.

Connecting camera and personal computer

1. Connect LAN cable and turn the power on.
Connect the LAN cable (straight cable) connected to the camera to the hub.
Or, connect the camera to a personal computer with the power turned on using the LAN cable (cross cable). Connect AC 24V/DC 12V to the power terminal.
2. Set the IP address of the personal computer.
 - Set the IP address which you are not using other than 192.168.0.10 (camera's IP address).
 - Set the IP address to 192.168.0.20 (and subnet mask to 255.255.255.0) as an example.
 - For details on the procedure, refer to the user's guide of the personal computer.
3. Test the camera connection using ping.
 - Start a command prompt. Type "ping 192.168.0.10" and press the "Enter" key.
 - If the "Reply from..." message appears, the connection is correctly established.
4. Search the camera by "IpFinder" explained and view a camera image.
 - Start "IpFinder" and click the "Search" button.
Confirm that the camera name "nwcam05" is displayed in the camera list.
 - Click "nwcam05" to select.
The camera name, IP address and HTTP port no. are displayed in the "Network Camera Lists" field.
 - Double-click the camera in the camera list you wish to log-in.
The screen for inputting the user name and password will appear. Input the administrator log-in ID and password. (See "Log-in Screen")
 - A camera image screen of the network camera will appear.



NOTE

- To view images without using "IpFinder," launch the Internet browser, enter URL `http://192.168.0.10/` in the address box and press "ENTER."
 - It takes about 10 seconds to activate the camera.
 - If a port number other than "80" is set, designate the port number by suffixing it after ":" as in `http://192.168.0.10:88`.
-

6.5 Using the camera search application "IpFinder"

The "IpFinder" is an application for searching network cameras that can currently be viewed from the administrator's personal computer or a user's personal computer, and connecting to those cameras.

Setting up "IpFinder"

1. Insert the CD in the CD-ROM drive of the personal computer.
2. Double-click the "ipfinder_Setup" file in the CD-ROM and install "IpFinder" in accordance with the instructions on the screen.



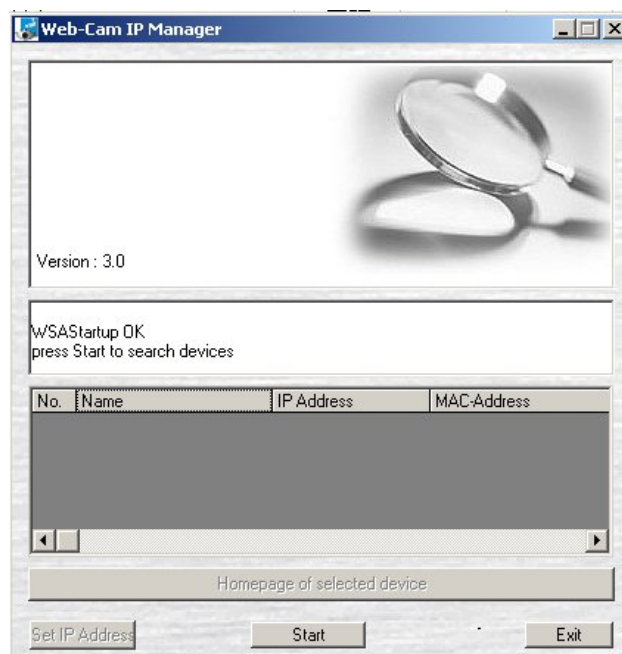
IMPORTANT

"IpFinder" is compatible only with Windows Vista and Windows XP. Glitches may occur with your personal computer if it is operated by other OS. Do not install "IpFinder" with other OS.

Using "IpFinder (Web-Cam IP Manager Version 3.0)" to search for a camera

1. Start the Web-Cam IP Manager by loading IP Manager.exe. This application is found on the CD included with delivery.

→ The Web-Cam IP Manager program window will open:



2. Click the Start button.
 - The Web-Cam IP Manager program window will now display a list of all the devices available for communication along with their IP and MAC addresses. Each device's IP address or MAC address is unique.
3. Select the device whose home page you want to access.
4. Click the **Home page of selected device** button.
 - The home page of the selected device will appear. See Section 6.8: Viewing and listening.
5. To exit without performing log-in, click the Exit button.



NOTE

Set the personal computer to "Administrator authorization" when using "IpFinder."

6.6 Using the camera search application "Web cam IP manager"

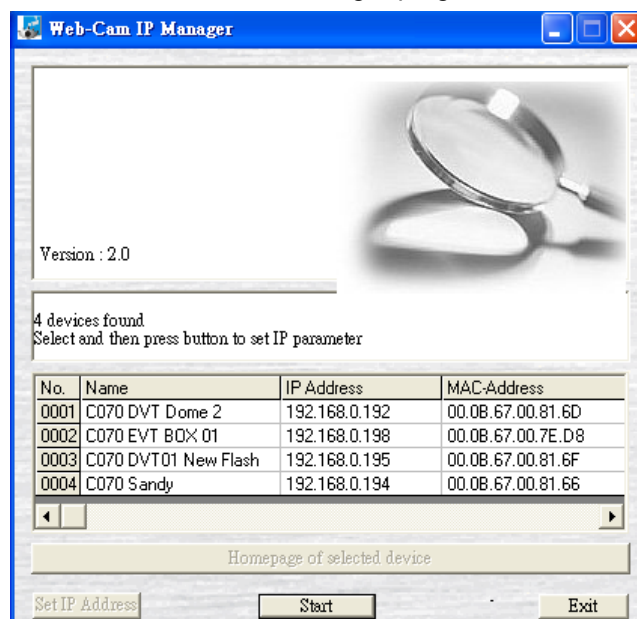
This assumes that:

The Web-Cam IP Manager and all the units are located in the same network segment. If a device and the Web-Cam IP Manager are not located in the same network segment, you must ensure that the associated gateway (router) passes the SSDP multicast messages sent by the Web-Cam IP Manager to the network segment where the device is located.

SSDP (Simple Service Discovery Protocol / network protocol)

1. Start the Web-Cam IP Manager by loading IP Manager.exe. This application is found on the CD included with delivery.

→ The Web-Cam IP Manager program window will open:



2. Click the Start button.

→ The Web-Cam IP Manager program window will now display a list of all the devices available for communication along with their IP and MAC addresses. Each device's IP address or MAC address is unique.
3. Select the device whose home page you want to access.
4. Click the **Home page of selected device** button.

→ The home page of the selected device will appear. See Section 6.8: Viewing and listening.

6.7 Log-in screen

1. Open the Internet Explorer.
2. Enter the default IP address: 192.168.0.10.

You can also use Mozilla Firefox. In that case, you have to download the IE Tab plug-in from the Mozilla Firefox homepage.

This product regards a person who has performed Administrator Log-in as an "administrator". Administrator Log-in can perform all functions.



Administrator Log-in

1. Search the camera by "IpFinder", double-click the camera you wish to log-in.
 - The screen for inputting the user name and password will appear.
2. Input the administrator log-in ID and password in the user name and password fields and click the OK button.
 - The administrator log-in screen and camera image screen will appear. And the administrator log-in ID and password are set to "admin" and to "admin" respectively by default.



IMPORTANT

Administrator Log-in allows rewriting of all settings. Be certain to change the administrator log-in ID and password already set in the camera by default, to ensure camera security. Keep the new administrator log-in ID and password handy for future use. To change the administrator log-in ID and password, see "Access protection" section.

6.8 Viewing and listening

Images of the network camera can be viewed through the Internet browser of your personal computer.

Preparations before displaying

- Enable cookies
- Set "Browser setting when proxy server is used" when a proxy server is used.
- Change "security" in Internet options as follows:
 1. Click "Internet Option" on the tool menu.
 2. Click the Security tab.
 3. Click the "Intranet" icon if the camera to be operated is inside the intranet, clicking the "Internet" icon if the camera is on the Internet.

4. Click "Level customize".
5. Check the following radio buttons in the displayed list:
 - "Enable" for "ActiveX control and plug in execute"
 - "Enable" for "Execution of script of ActiveX control marked safe even when script is executed"
 - "Enable" for "Download of signed ActiveX control"
6. Click "OK."

Log-in the camera

- Enter the camera IP address (default: 192.168.0.10) in the browser address bar to launch the camera login screen.
- See "Log-in Screen" portion for the log-in method.
- When the security warning screen (VeriSign) appears on the first use of the system, click "Yes."



NOTE

Administrator authorization is needed to install "Active-X control." Install "Active-X control" after changing the personal computer setting to "Administrator authorization."

Browser setting when proxy server is used

In case a proxy server is used, setting of the browser to bypass the proxy server during communication with the network camera is recommended.

1. Launch the browser.
2. Choose "Internet option" on the tool menu.
3. Click "Connect" tab.
4. Click "LAN Setting".
 - ➔ The screen for setting a local area network (LAN) will appear.
5. Check if the checkbox "Will use a proxy server" is checked.
 - If the checkbox is not ticked
The browser is not set to use a proxy server. Click "Cancel" and quit setting.
 - If the checkbox is checked
Click "Detail setting." A proxy setup screen will appear.
6. Enter the IP addresses of the network cameras in the field marked "Do not use the proxy server with addresses started with the following."
7. Click "OK".

When Windows XP SP2 is used: Click "Install" for "Active-X control".



NOTE

- A proxy server protected by a firewall sometimes cannot be connected to the network camera. Consult the network administrator so as to avoid impacts on network camera operations.
 - Communication with the network cameras via a proxy server may cause some problem. Install the network cameras after consulting the network administrator.
 - Using the network cameras via a proxy server sometimes takes a long time till images are displayed after log-in or reduces the frame rate of delivered images.
-

Camera Image screen

Live Player - Web



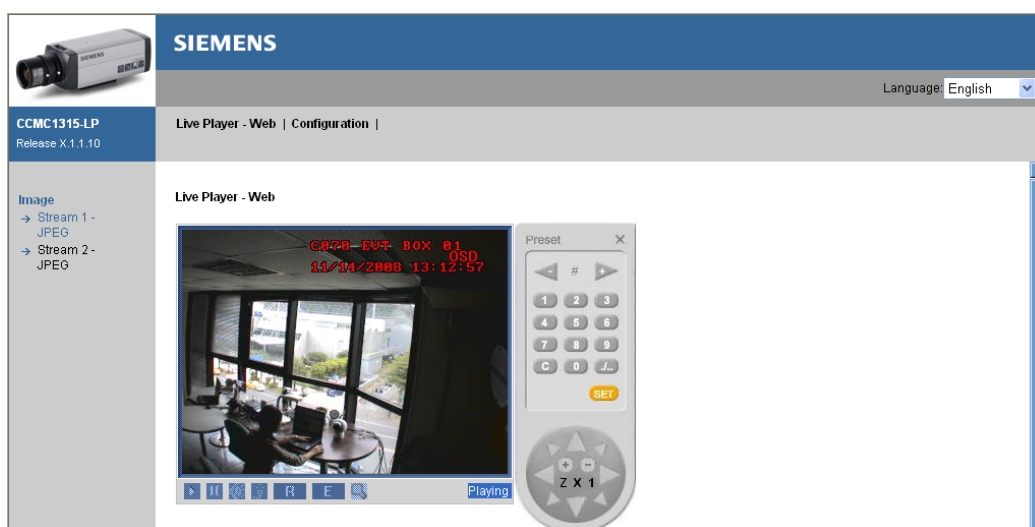
When using Windows XP SP2

If the Camera Image screen fails to display, operate as follows.

1. Choose "Pop-up Blocker" on the tool menu.
2. Choose "Always Allow Pop-ups from This Site...".


Components of unit home page

OSD	this function enables OSD setting including title name, date and time
E	this function is PTZ control and preset setting
Microphone	alarm out stop
Speaker	alarm in stop
Pause	passed live image
Play	show live image
Language	standard setting is English. Website supports 10 different languages for end user choice
PTZ operating panel	the PTZ operating panel enables a pan/tilt/zoom drive and the current pan/tilt position is stored under the selected position number. Up to 64 positions can be stored for the network camera
Image stream 1 & stream 2	Two streams, 1 & 2 available for selection. Stream 1 can be set to JPEG and MPEG4, but only JPEG available for Stream 2



7 Configuration

7.1 Compression



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- Compression
- Network Settings
- Image Parameters
- Alarm
- Record
- Audio
- Date/Time
- Access Protection
- Firewall
- System
- Log
- Notice

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Compression

Stream 1

Image Mode	JPEG ▾
Resolution	320 x 240 ▾
Frame Rate	25 ▾ fps
Compression Ratio	Standard ▾
Bit Rate	2048 ▾ kbit/s
GOP	29 (1 - 64)

Stream 2

Image Mode	JPEG ▾
Resolution	320 x 240 ▾
Frame Rate	25 ▾ fps
Compression Ratio	Standard ▾

Image mode

- Both functions of JPEG and MPEG4 are effective.
- Two streams, 1 & 2 available for selection. Stream 1 can be set to JPEG and MPEG4, but only JPEG available for Stream 2

JPEG

The following settings are enabled when "Compression Mode" is set to "JPEG".

- Resolution
Configure resolution. Higher resolution results in larger image
Possible settings : 1280×960 (4 VGA) / 640×480 (VGA) / 320×240 (QVGA)
- Compression Ratio
Set quality of delivered images. The size of image files (JPEG files) varies in accordance with compression ratio. Five options are available from Low to High
 - Low compression: This setting produces highest image quality. The file size increases.
 - Mid compression: Standard setting.
 - High compression: This setting produces lowest image quality. The file size decreases.
- Frame Rate: seven frame rates – 1, 2, 3, 5, 10, 12, 25 – are available for selection.

MPEG4

The following settings are enabled when "Compression Mode " is set to "MPEG4".

- Resolution: 640 x480 and 320 x240 available.
- Bit Rate: 6 modes including 256, 512, 1024, 2048, 3072 and 4096 kb/s.
- GOP: default is 29. It means 1 I frame plus 28 P frame. End user can adjust 1~64 level.

Unicast Streaming

Ready for MPEG4 and JPEG streaming

- RTSP Port Number – specify the port number you would like to use for RTSP protocol, default is 554
- VIDEO Port Number - specify the port number you would like to use for video streaming, default is 5000

Multicast Streaming

Ready for MPEG4 and JPEG streaming

- Multicast Address: specify the multicast address
- RTSP Port Number – specify the port number you would like to use for RTSP protocol, default is 554
- VIDEO Port Number - specify the port number you would like to use for video streaming, default is 5000

Stream 1	
Transfer Type	<input type="radio"/> Multicast <input checked="" type="checkbox"/> Automatic Connection <input checked="" type="radio"/> Unicast
RTSP Port	<input type="text" value="554"/> (1 - 65535)
Video Port	<input type="text" value="5000"/> (1 - 65535)

Stream 2	
Transfer Type	<input type="radio"/> Multicast <input checked="" type="checkbox"/> Automatic Connection <input checked="" type="radio"/> Unicast
RTSP Port	<input type="text" value="555"/> (1 - 65535)
Video Port	<input type="text" value="5010"/> (1 - 65535)

Cropping 1	
Transfer Type	<input type="radio"/> Multicast <input checked="" type="checkbox"/> Automatic Connection <input checked="" type="radio"/> Unicast
RTSP Port	<input type="text" value="556"/> (1 - 65535)

How to operate RTSP

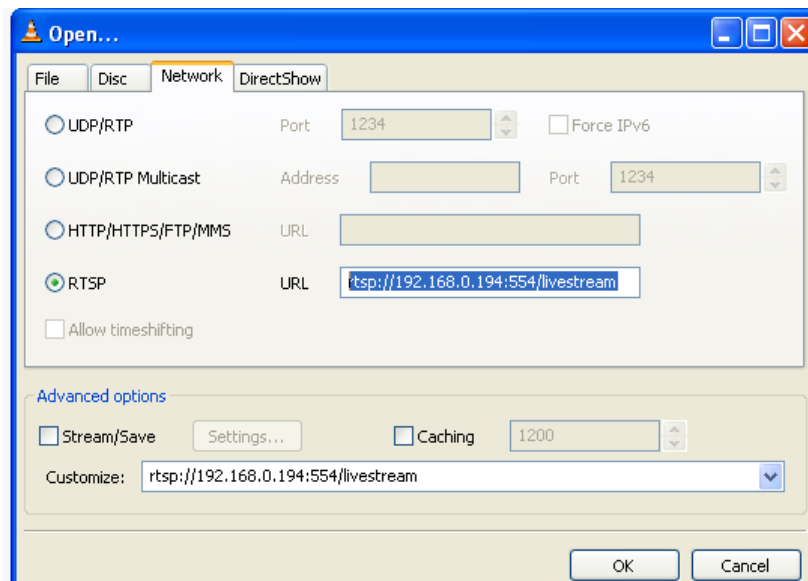


NOTE

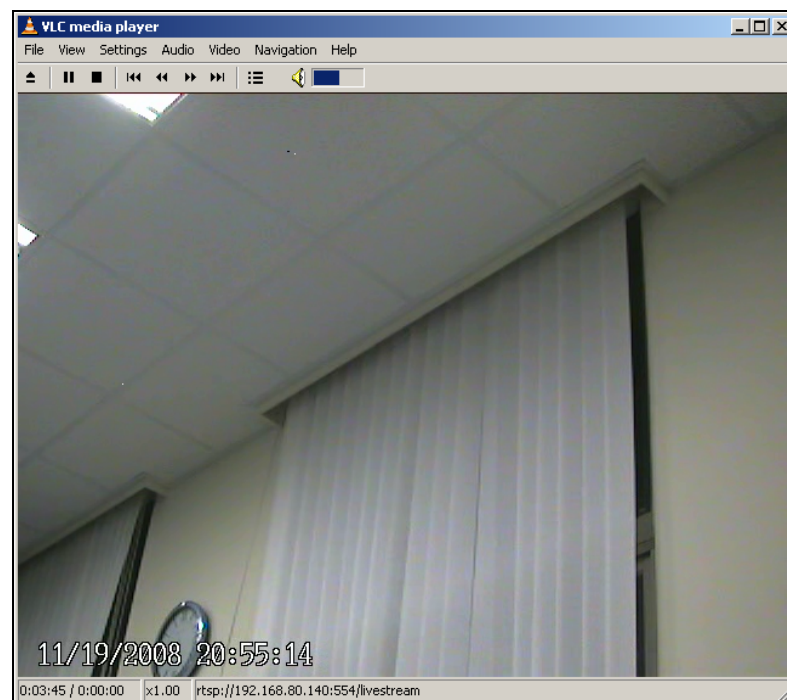
You need to prepare a suitable RTSP player such as Quicktime or VLC media player to receive the data streaming first, then execute the application program. This application is found on the CD included with delivery.

- Using VLC media player
 1. Select **Open** then click the **Network** tab.
 2. Click RTSP then fill in web address
rtsp://<IP address>:<rtsp_port>/livestream
 3. Click OK.

For example: rtsp://192.168.0.194:554/livestream. Regarding default value of RTSP port, it's based on which stream you select.



VCL media player

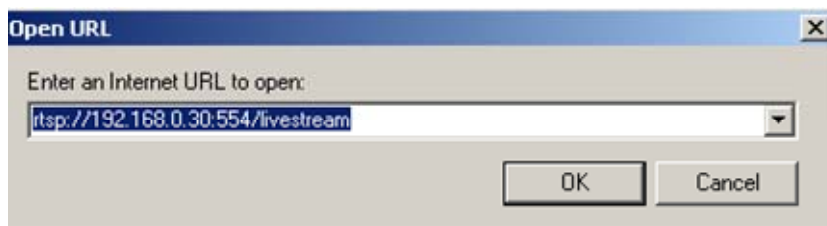


- Using Quicktime

1. Select **Open URL** .
2. Fill in `rtsp://<IP address>:<rtsp_port>/livestream`
3. Click **OK**.

For example: `rtsp://192.168.0.194:554/livestream`.

Regarding default value of RTSP port, it's based on which stream you select.




Quicktime livestream



7.2 Network settings

You can set up your camera's basic settings, DDNS, and FTP server by selecting **Network Settings** in the **Configuration** menu.



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Configuration

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Network - Basic Settings

Basic

Camera Name	<input type="text" value="C070 BOX 01"/>
Camera Name Enable	<input checked="" type="radio"/> ON <input type="radio"/> OFF

Network

DHCP	<input checked="" type="radio"/> ON (Automatically obtain IP address) <input type="radio"/> OFF (Manually use the following IP address)
IP Address	<input type="text" value="192.168.0.198"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
Default Gateway	<input type="text" value="192.168.0.1"/>
Primary DNS	<input type="text" value="192.168.0.1"/>
Secondary DNS	<input type="text"/>

Port

7.2.1 Basic Settings

Basic	
Camera Name	Input your camera name here. The default name is "nwcam05".
Camera Name Enable	
Network	
DHCP	The IP address is automatically obtained when you select ON; otherwise, select OFF to manually set up the network setting.
IP Address	Input your IP address here when you select DHCP off.
Subnet Mask	Please use default number: 255.255.255.0
Default Gateway	Leave blank as default setting. It is not necessary to enter Default Gateway if it is not used. Ask your Network Administrator for Default Gateway information.
Primary DNS	(Same as above)
Secondary DNS	(Same as above)
Port	
Stream1-Stream2, cropping1-5:	We recommend to use the default; if it needs to be changed please check with system administrator.
UPnP	
	If "ON" is selected, the camera can be detected automatically by the PC. No need to have IpFinder installed.
AUDIO output	
	If "ON" is selected, a voice message of camera's IP address can be delivered to external speaker via Audio output port.

Bandwidth Control	
	<p>OFF: The network camera will stream images at the maximum frame rate allowed by the network.</p> <p>ON: The network camera will stream images up to the set bandwidth; using a lower bandwidth results in lower frame rates.</p>

7.2.2 DDNS Settings

This function is available when registering with DDNS provider. Select ON to enable the DDNS function; input your DDNS server, User ID, password and password (confirm), and then click **Save** to save your settings.

To transmit the camera's host name to a DHCP server you have to configure this in the **DDNS Settings**.

Network - DDNS Settings

DDNS Settings	
DDNS	<input checked="" type="radio"/> ON <input type="radio"/> OFF
DDNS Server	DynDNS ▼
Host Name	<input type="text"/>
Domain Name	<input type="text"/>
Enter user name and password according to your DDNS provider.	
User ID	<input type="text"/>
Password	<input type="password"/>
Password (Confirm)	<input type="password"/>
<small>'DDNS service' is a service provided by DDNS provider. MAC address of this camera is 00:0B:67:00:85:86</small>	
<input type="button" value="Save"/>	

7.2.3 FTP Server

If you wish to enable the FTP function, select ON to activate the FTP function. Input your Login ID, password, password (confirm), and the number of maximum connections in the **Max. Simultaneous Connections** box. Click **Save** to save your setting.



NOTE

The purpose is to download or delete the directories/files in SD memory card.

Network - FTP Server Settings

FTP Server Settings	
FTP Function	<input type="radio"/> ON <input checked="" type="radio"/> OFF
Login ID	root
Password	••••
Password (Confirm)	••••
Max. Simultaneous Connections	10 ▼
<input type="button" value="Save"/>	

7.3 Image parameters

7.3.1 Camera - Basic setting



NOTE

The Day/Night function is supported by the **CCMS1315** network camera only.

Day/Night	<p>Configure auto black-and-white function. Auto B/W is the function to gain sensitivity by turning to B/W automatically at dark environment. ON: Auto B/W takes action. OFF: Auto B/W does not take action.</p> <p>NOTE: The focus of the image may appear a little blurred in B/W mode when an infrared illuminator is activated at night.</p>
Day-Night Delay time	5 delay settings – 0, 5, 10, 15, 30 s – are available for selection to avoid error induced by instantaneous lighting change. This allows the delay time for the day/night function to be set.
Day-Night level	3 level settings – high/mid/low – are available for selection. The switching point from colour to black/white mode depends on the ambient light conditions.

Basic items such as the size and quality of delivered images of the camera can be set here.

1. Select **Image Parameters** in the **Configuration** menu.
→ A sub menu for Camera Settings will appear.
2. Click "Basic" in the sub menu.
→ The "Camera - Basic Settings" screen will appear.

Camera - Basic Settings

Image Colour	
Preset Image	OFF
EV Adjustment	+ 0 (Select '+' or '-' and input a value between '0' and '9')
Automatic Gain Control (AGC)	Mid
Shutter Speed	1/25 s
Slow Speed Shutter	OFF
Back Light Compensation (BLC)	OFF
Sharpness	Soft
Gamma Correction	<input type="radio"/> 1 <input checked="" type="radio"/> 0.45
White Balance Control	AWB 48 (0-63)
Iris Adjustment	1
Picture	
Picture Flip	<input type="radio"/> ON <input checked="" type="radio"/> OFF
Picture Mirror	<input type="radio"/> ON <input checked="" type="radio"/> OFF

Save

3. Configure the individual settings.
4. Click the **Save** button to save your settings.

The settings will not be reflected unless the **Save** button is clicked.

Image colour

Preset image	Four types of specific application conditions such as Indoor, outdoor, tunnel and casino can be selected for a quick and easy setup.
EV Adjustment	19 steps of offset level from -9 to +9 are available to adjust the internal reference brightness level. The higher the level the brighter the images, and the lower the level the darker the images.
Auto Gain Control	<p>The circuit gain is adjusted automatically between Min. and the selected value, "Low," "Mid" and "High" where the sensitivity characteristic increases in the order of "Low," "Mid" and "High". Noise at dark will be more noticeable when Auto Gain Control is near "High".</p> <p>NOTE:</p> <p>If sensitivity is still too low after setting Auto Gain control, set the high limit value of the slow shutter, to further increase sensitivity.</p>
Shutter Speed	Default is: 1/25 s. The shutter speed is set at automatic, 1/25 s, 1/50 s, 1/120 s, 1/250 s, 1/1000 s and 1/10000 s. The network camera will adjust the aperture according to the amount of ambient light.
Slow Speed Shutter	<p>The Slow shutter can be turned "ON" if the sensitivity is still not so good under "High" gain condition at dark. The optimum image level can be maintained by appropriate gain and shutter combination which are determined automatically inside camera system.</p> <p>As slow shutter activates, the exposure time becomes longer and frame rate becomes smaller. Blurred images sometimes are prominent with moving objects.</p>
Back Light Compensation	<p>Set an area for backlight compensation. If backlight compensation is activated, the camera performs the exposure control only within the specified area.</p> <p>Backlight compensation is a function that achieves the brightness of a selected area to an optimum image level. This function is necessary when an auto iris lens tends to close due to an intense light coming from the back of the object in the area to be viewed so that areas become dark and visibility deteriorates. In this case, set the area so that the portion to be viewed is within the selected area. The area size is roughly as shown in Fig. 2 below.</p>
Sharpness	<p>Set sharpness.</p> <p>"Sharp": sharpness is high.</p> <p>"Soft": sharpness is low.</p>
Gamma	<p>"1": May be selected for some specific area, such as FA application for obtaining true video data.</p> <p>"0.45": This is default, suitable for CCTV application</p>
White Balance	<p>Set the white balance values to meet the environment condition for best colour rendition.</p> <ul style="list-style-type: none"> ● "AWB": the colour of the camera is automatically adjusted according to external lighting condition. ● "Manual": Adjustable by user manually, this is useful for some specific condition which AWB may be unaffordable to perform correctly. ● "Indoor": Default for 3200K condition ● "Outdoor": Default for 5100K condition
Iris Adjustment	19 steps of offset level from -9 to +9 are available to adjust the image level for a DC auto iris lens. The higher the level the brighter the images, and the lower the level the darker the images.

Configuration

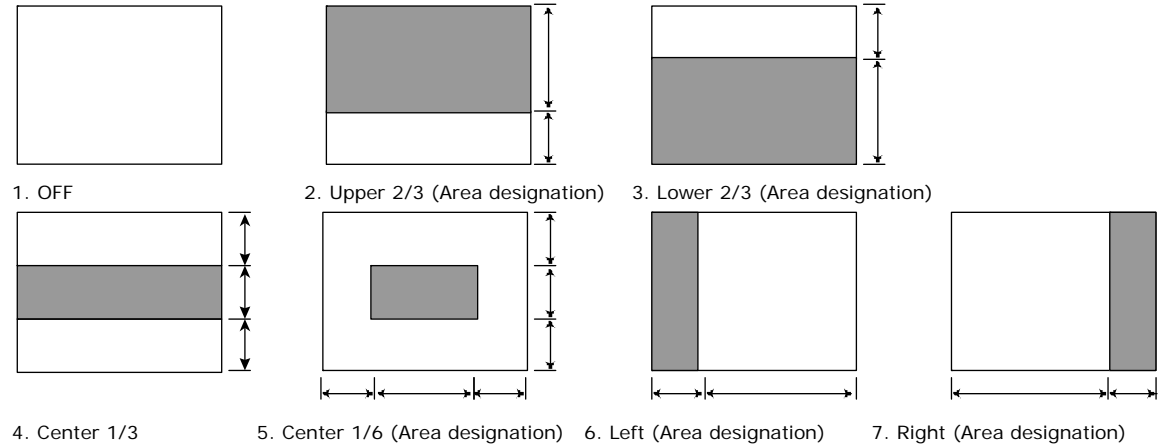


Fig. 2 Back Light Compensation

(The image level of shaded parts is maintained appropriate)
When OFF, rear light correction is not performed.

Picture

Picture Flip	Set image to be upside or down. Select ON or OFF to activate or deactivate the flip function.
Picture Mirror	Set image to be left or right. Select ON or OFF to activate or deactivate the mirror function.

7.3.2 Camera-mask zone settings

Camera - Mask Zone Settings

Mask Zone			
Enable	No.	Mask Zone	
<input type="radio"/> ON <input checked="" type="radio"/> OFF	1	<div>Set Mask Zone</div>	
<input type="radio"/> ON <input checked="" type="radio"/> OFF	2	<div>Set Mask Zone</div>	
<input type="radio"/> ON <input checked="" type="radio"/> OFF	3	<div>Set Mask Zone</div>	
<input type="radio"/> ON <input checked="" type="radio"/> OFF	4	<div>Set Mask Zone</div>	
<input type="radio"/> ON <input checked="" type="radio"/> OFF	5	<div>Set Mask Zone</div>	
<input type="radio"/> ON <input checked="" type="radio"/> OFF	6	<div>Set Mask Zone</div>	
<input type="radio"/> ON <input checked="" type="radio"/> OFF	7	<div>Set Mask Zone</div>	
<input type="radio"/> ON <input checked="" type="radio"/> OFF	8	<div>Set Mask Zone</div>	

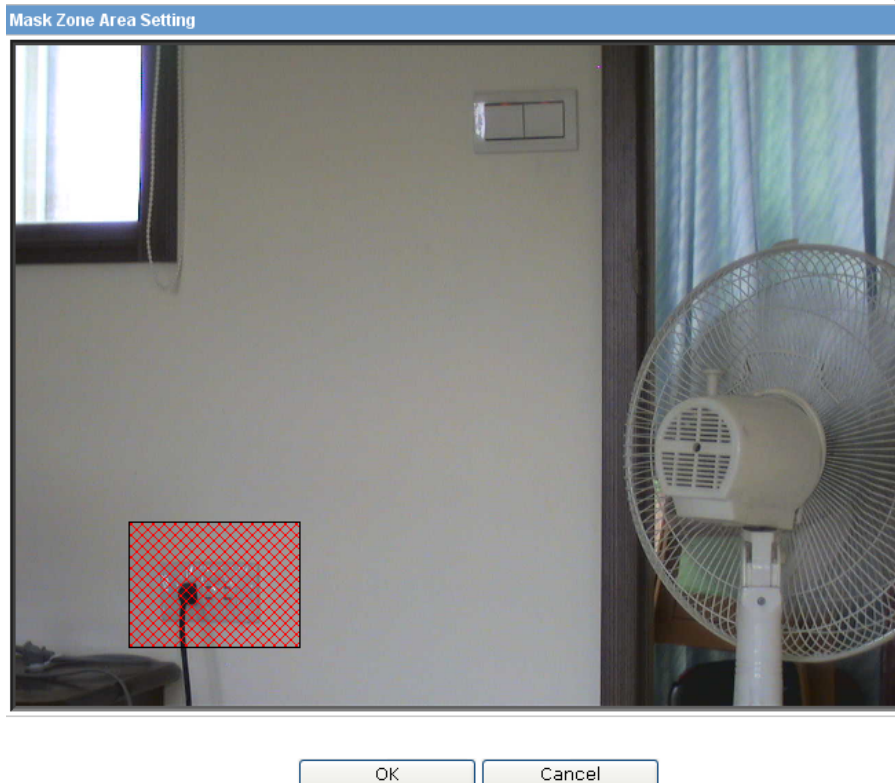
Save

1.

Tick the checkbox “ON”, then click “Set Mask Zone” to start mask setting.
2.

Use the mouse to drag a mask rectangle on the screen, click “OK” to complete the selection.
3.

Click “Save” to enable the mask setting.

**NOTE**

Max. 8 masks can be set on the screen.

The mask function is not supported when the cropping function is on.

7.3.3 Camera cropping settings

Camera - Cropping Settings

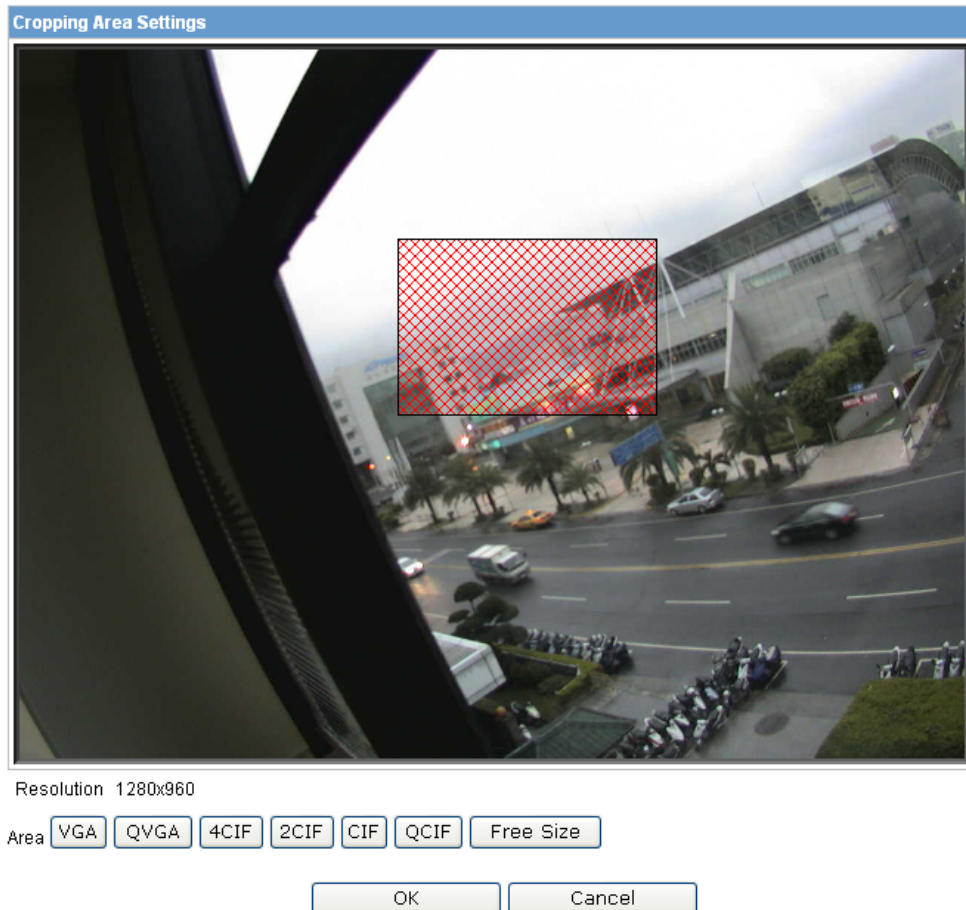
Cropping			
Enable	No.	Name	Area
<input type="checkbox"/>	1	<input type="text"/>	Set Cropping Area
<input type="checkbox"/>	2	<input type="text"/>	Set Cropping Area
<input type="checkbox"/>	3	<input type="text"/>	Set Cropping Area
<input type="checkbox"/>	4	<input type="text"/>	Set Cropping Area
<input type="checkbox"/>	5	<input type="text"/>	Set Cropping Area

OSD is not supported when cropping function is on.
 Privacy zone is not supported when cropping function is on.
 MPEG4 is not supported when cropping function is on.

Save

1. Tick the "ENABLE" checkbox and fill in the name, then click "Set Cropping Area" to start cropping setting.
 → A cropping setting screen will pop up as shown.

Camera - Cropping Area Settings



2. Select a type of cropping from VGA, QVGA, 4CIF, 2CIF, CIF, QCIF, and Free Size at the bottom of the screen.
 - A red-mesh rectangle will appear on the screen.
3. To select the cropping area, move the mouse to the preferred position on the screen, then click the left button.
 - The red-mesh rectangle will jump to that position.
4. Click "OK" to finish the settings and return to the **Cropping** menu.
5. Click "SAVE" to enable the settings.



NOTE

Up to 5 cropping areas can be set on the screen.

The MPEG4 function is not supported when the cropping function is on.

7.3.4 Camera OSD settings

This function sets up the text position and colour of the camera name, alarm text or DATE/TIME on the screen. Of course, the corresponding ENABLE flag for each item shall be "ON" to activate this function, such as camera name Enable in Network setup, Text enable in Alarm setting and Display in DATE/TIME setting. When the OSD is off, the message "OSD" will be overlaid in red. Masking is only possible when the OSD is off. Make sure not to select the same position for alarm text and date/time display.

Camera - OSD Settings

Camera Name / Alarm Text	
Horizontal Position	1
Vertical Position	1
Colour	White

Date/Time	
Horizontal Position	1
Vertical Position	30
Colour	White

Save

7.4 Alarm

External alarms and motion sensors can be set. Connecting a sensor or other device to the alarm input terminal signals an alarm when the sensor detects trouble. For example, mounting a sensor on a door notifies an alarm each time the door is opened. By setting the motion sensor to activate, an alarm is notified by detecting a change in a screen.

External Digital Input 1	
Alarm Input	<input type="radio"/> ON <input checked="" type="radio"/> OFF
The following settings are enabled when alarm is set to other than 'OFF':	
Input Type	<input checked="" type="radio"/> Normally Open (NO) <input type="radio"/> Normally Closed (NC)
Text Enable	<input type="radio"/> ON <input checked="" type="radio"/> OFF
Text	<input type="text"/>
Audio Output	<input type="radio"/> ON <input checked="" type="radio"/> OFF
Event	Audio Event 2

Two alarm digital input terminals AL1, AL2 are located on the rear panel. Before using the alarm function certain parameters need to be defined.

7.4.1 External digital input 1

- Set an "Alarm Input"
ON: Detects an external alarm.
OFF: Does not perform alarm detection.
→ The following functions will be enabled if "Alarm Input" is set to "ON"
- Set "Input type" for alarms
Normally Open (NO): A dry-contact detecting way, opened if nothing occurs but closed in case of an alarm.
Normally Closed (NC): A dry-contact detecting way, closed if nothing occurs but open in case of an alarm.
- Set "TEXT Enable" for alarms
A noticeable message of alarm can be displayed on screen if this item is set to "ON".
- Enter "Text" for alarm message
Max 24 characters can be entered.
- Set "Audio out" for alarm message
An audio alarm message can be sent to an external speaker if this item set to "ON".



NOTE

A speaker with integrated amplifier can be connected to the AUDIO out jack on the rear panel.

- Select "EVENT"
Pre-recorded voice files with extension .wav that have been uploaded to SD memory card in advance can be selected as voice alarm message. Up to 4 kinds of audio source can be selected.

7.4.2 External digital input 2

All configurations are the same as for Alarm digital 1, except that an additional input mode – enforced BW – is added, which will switch the camera to monochrome mode if a trigger signal is received.

7.4.3 Motion detection settings

Motion Detection Settings	
Motion Detection	<input type="radio"/> ON <input checked="" type="radio"/> OFF
Area	<input type="button" value="Set Motion Area"/>
Sensitivity	<input type="text" value="Mid"/>
Text Enable	<input type="radio"/> ON <input checked="" type="radio"/> OFF
Text	<input type="text"/>
Audio Output	<input checked="" type="radio"/> ON <input type="radio"/> OFF
Event	<input type="text" value="Audio Event 2"/>

These settings are similar to the alarm input settings, with some additional functions:

- Motion detection
 - Set to ON: open motion detection function.
 - Default is off, close motion detection function.
- Area
 - Click on “Set motion area”, and an image screen will pop up.
 - Select the interested area by dragging the mouse.
- Sensitivity

Set "Sensitivity."

 - High: An alarm will be triggered with even small changes in brightness within the defined area.
 - Mid: Intermediate between High and Low.
 - Low: An alarm will be triggered with a major change in brightness within the defined area.
- Text Enable
 - Select ON or OFF to define whether an additional alarm text defined in the **Text** field is to be overlaid on the video image.
- Text
 - Define an individual text for alarm overlay.
- Audio Output
 - Select ON or OFF to define whether an additional audio message (*.wav), pre-recorded on the SD card, is to be output via the Audio out connector.
- Event

Pre-recorded voice files with extension .wav that have been uploaded to SD memory card in advance can be selected as voice alarm message. Max. 4 kinds of audio source can be selected.

7.4.4 Alarm output

Alarm Output	
Alarm Mode	<input type="radio"/> OFF <input type="radio"/> B/W <input checked="" type="radio"/> Event
Output Hold Time	5 seconds

- Alarm mode:
The alarm output can be turned OFF or be activated when any of the following events occurs:
 - B/W: when the camera changes to monochrome
 - Event: Once alarm input1 or alarm input 2 or motion is triggered, the alarm out will be triggered immediately as well.
- Output hold time:
Set a time to hold alarm output. Choose either 0, 5, 10, 15, or 30 seconds. This function is used when connecting to alarm output terminals and activating a siren, buzzer or emergency light.

7.4.5 Audio Event

You can choose which audio *.wav file you want to upload as a voice alarm message to the SD card from your PC. There are 4 audio events available for upload. You can select in the appropriate menu which audio event is to be played with which event (Motion or Alarm input 1).

Audio Event Upload

Audio Event 1 :	
File Name :	<input type="text"/> 瀏覽...
Upload	

Audio Event 2 :	
File Name :	<input type="text"/> 瀏覽...
Upload	

7.5 Record

7.5.1 FTP recording

You can save image files via FTP. Set up your FTP recording conditions first, then identify your FTP sever 1 and 2.

FTP recording conditions

FTP Recording

Conditions	
Conditions	<input type="checkbox"/> Schedule <input checked="" type="checkbox"/> Alarm <input type="checkbox"/> Motion

You can store your image files based on your scheduled recording, or recording by alarm, or recording by motion.

● Scheduled Recording

Scheduled Recording				
Day	Recording Schedule			
	Stop	All Day	Schedule 1	Schedule 2
Monday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tuesday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Wednesday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Thursday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Friday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Saturday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sunday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Schedule 1	Start: 8 a.m.	- Stop: 5 p.m.		
Schedule 2	Start: 0 a.m.	- Stop: 0 a.m.		
Recording Cycle	1 seconds			
Record File Name	LV_#####_yyyymmddHHMMSS***N.JPG			
Server 1:				

Determine the recording condition: STOP, all day, schedule 1 or schedule 2 from the recording schedule table for all days from Monday to Sunday.

● Recording by Alarm

Recording by Alarm	
Record Source	<input checked="" type="radio"/> JPEG <input type="radio"/> MPEG4
Recording Frame	10
Recording Cycle	1 s
Recording Time	5 s
Record File Name	Alarm In : EX_#####_yyyymmddHHMMSS
Server Path	Server 1: Server 2:

- Configure "Alarm input setting" first.
Then select the recording format:
 - Record Source: choose JPEG or MPEG4 format

- Recording Frame
Set the number of images to be recorded immediately after an alarm occurs. Images of the moment when an alarm occurs are not included.
1, 2, 5, 10, 30 and 60 frames can be selected if JPEG format selected. No need for MPEG4 format
- Recording Cycle
Set a time interval for alarm recording: 1, 2, 5, 10, 30, 60, 90, 120 s can be selected for JPEG format; no need for MPEG4 format
- Recording Time:
If MPEG4 is selected, the recording time can be set to 2, 5, 10 s.
- Record file name
Under transfer image section, the file name arranged by FTP server is time stamp based. With Time Stamp based, the record file name will be formatted with the desired file name, time and date as the file name. You can enter the file name or leave it blank.

● Recording by Motion


Recording by Motion	
Record Source	<input checked="" type="radio"/> JPEG <input type="radio"/> MPEG4
Recording Frame	10
Recording Cycle	1 s
Recording Time	5 s
Record File Name	Alarm In : MD <input type="text"/> yyyymmddHHMMSS

Configure "Motion Detection Setting" first.

All the other settings are same as recording by alarm as above.

FTP Server Settings - Server 1 and 2

Please follow your FTP setting to set up FTP server name, Login ID, Password, FTP port number, FTP mode, and FTP connecting method.



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FTP Recording

Conditions

Conditions ☐ Schedule ☐ Alarm ☐ Motion

FTP Server 1 Settings

FTP Server Name

Login ID

Password

Password (Confirm)

FTP Port Number

FTP Mode ☒ PORT ☐ PASV

FTP Connecting Method ☒ Reconnect ☐ Continuous Connection

FTP Server 2 Settings

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 → Record
 FTP Recording
 SD Recording
 E-mail Recording
 NAS Recording
 → Audio
 → Date/Time
 → Access Protection
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 → Notice

- FTP server name: Input a server name or address.
- Login ID: Limited to users who have authority to access the server.
- Password: Input the registered password associated with the login ID.

- Password (Confirm): Re-enter the password.
- FTP Port Number: set "21" as default.
- FTP Mode
 - PORT mode: This mode is for most FTP applications
 - PASV mode: This mode is used when the camera's network environment is behind a firewall.
- FTP Connecting Method
 - Reconnect: The network camera logs in/out for each file transfer
 - Continuous Connection: The network camera is always in connection.

Connecting method

You can choose to save your image files to either FTP server 1, 2, or automatically switching servers.

Connecting Method	
Primary Server	<input checked="" type="radio"/> FTP Server 1 (Default)
	<input type="radio"/> FTP Server 2
Automatic Server Switch	<input type="radio"/> ON (Automatically switch to another server in case of communication fault)
	<input checked="" type="radio"/> OFF (Default)

SD Card Back Up if FTP Fail

SD Backup	
Function ON/OFF	<input type="radio"/> ON <input checked="" type="radio"/> OFF
Accumulation Cycle	<input type="text" value="60"/> seconds
Overwrite	<input type="radio"/> ON <input checked="" type="radio"/> OFF


The network camera automatically stores images in the SD card when images cannot be recorded in the server due to a network failure, or other trouble. The stored images can be transferred to the FTP server when the network status or other troubles are resolved.

Function ON/OFF: Select ON to activate SD card FTP back up function.

Accumulation Cycle: Set a time interval in seconds for images to be stored. (Time interval: 1, 2, 5, 10, 15, 30, 60 or 120 seconds)

Overwrite: Overwrite when SD card reaches the maximum capacity and start with oldest stored images.

7.5.2 SD recording



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SD Recording

Conditions

Conditions

☐ Schedule
☐ Alarm
☐ Motion
☐ Network

Overwrite

Overwrite

☐ ON ☒ OFF

Save

- Conditions

Select whether images are to be stored on the SD card by:
Time schedule, alarm input, motion alarm or network loss.

- Configure the individual settings as described below.

- Overwrite

ON: Records are overwritten beginning with old records when the capacity of the SD memory card becomes full during recording.

OFF: Recording is stopped when the capacity of the SD memory card becomes full during recording.

- Scheduled Recording

Scheduled Recording				
Day	Recording Schedule			
	Stop	All Day	Schedule 1	Schedule 2
Monday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tuesday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Wednesday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Thursday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Friday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Saturday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sunday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Schedule 1	Start: 8 a.m. - Stop: 5 p.m.			
Schedule 2	Start: 8 a.m. - Stop: 5 p.m.			
Recording Cycle	60 seconds			

Determine the recording condition: STOP, all day, schedule 1 or schedule 2 from the recording schedule table for all days from Monday to Sunday.

- Recording by Alarm

Recording by Alarm	
Record Source	<input checked="" type="radio"/> JPEG <input type="radio"/> MPEG4
Recording Frame	10 ▼
Recording Cycle	1 ▼ s
Recording Time	5 ▼ s

Configure "Alarm input setting" first.

Then select the recording format:

- Record source: choose JPEG or MPEG4 format
- Recording frame
Set the number of images to be recorded immediately after an alarm occurs. Images of the moment when an alarm occurs are not included.
1, 2, 5, 10, 30 and 60 frames can be selected if JPEG format selected. No need for MPEG4 format
- Recording cycle
Set a time interval for alarm recording 1, 2, 5, 10, 30, 60, 90, 120 s can be selected for JPEG format, no need for MPEG4 format
- Recording time:
If MPEG4 is selected, please set the recording time to 2, 5, or 10 s.

- Recording by Motion

Recording by Motion	
Record Source	<input checked="" type="radio"/> JPEG <input type="radio"/> MPEG4
Recording Frame	10 ▼
Recording Cycle	1 ▼ s
Recording Time	5 ▼ s

Perform "Motion Detection Setting" first.

All the other settings are same as recording by alarm as above.

- Recording by Network Loss

Recording by Network Loss	
Recording Cycle	1 ▼ s

Select network recording. After network loss, the network camera automatically stores images based on your settings.

- Recording cycle
Set a time interval for network recording. 1, 25, 10, 30, 60, 90, 120 s can be selected.


2. Click the Save button under the items.

→ Changes are saved.



NOTE

Setting the overwrite mode to ON deletes files, beginning with old files. If important data is to be saved, set the Overwrite mode to OFF.



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E-mail Recording

Conditions

Conditions

☐ Schedule

☐ Alarm

☐ Motion

E-mail Server Settings

Authentication

☒ No Authentication

☐ SMTP

☒ PLAIN
☐ LOGIN
☐ CRAM-MD5

E-mail Server (SMTP)

The following 3 items are enabled when 'SMTP' is selected

E-mail User ID

Password

Password (Confirm)

You can receive images by setting your e-mail account.

Authentication setting

- No Authentication – no restrict rule
- SMTP Auth. – Authorize plain, login, and Cram-MD5
- E-mail Server (SMTP) – input your outgoing mail server (SMTP)
- E-mail Server (POP) – input incoming mail server (POP)
- E-mail User ID – input your e-mail account ID number
- Password – input your e-mail account password
- Password (Confirm) – confirm your e-mail password
- Administrator E-mail Address – input your e-mail address

Click the “save & test e-mail” button to save your settings and to test your e-mail setting.

Condition settings for sending e-mail by schedule

Setup E-mail condition to Schedule.

- Subject – input your subject title for sending e-mail
- Message – input the alarm message as a notification
- Attach Image – attach image files to your e-mail notification
- Recording Schedule – select intended recording days on the recording schedule table.
- Recording cycle – Set a time interval for schedule recording – 30, 60, 120, 240, 600, 1200, 1800, 3600s can be selected.

Scheduled Recording				
Subject		<input type="text"/>		
Message		<div><div></div><div></div></div>		
Attach Image		<input type="radio"/> ON <input checked="" type="radio"/> OFF		
Day	Recording Schedule			
	Stop	All Day	Schedule 1	Schedule 2
Monday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tuesday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Wednesday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Thursday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Friday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Saturday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sunday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Condition settings for sending e-mail by alarm in

Setup E-mail condition to Alarm.

Recording by Alarm	
Subject	<input type="text"/>
Message	<div style="border: 1px solid #ccc; height: 80px;"></div>
Attach Image	<input type="radio"/> ON <input checked="" type="radio"/> OFF

- Subject – input your subject title for sending e-mail
- Message – input the alarm message as a notification
- Attach Image – attach image files to your e-mail notification

Condition settings for sending e-mail by motion

Setup E-mail condition to Motion.

Recording by Motion	
Subject	<input type="text"/>
Message	<div><div></div><div></div></div>
Attach Image	<div><div><input type="radio"/> ON</div><div><input checked="" type="radio"/> OFF</div></div>

All the other settings are similar to alarm.


Mail to Address List

You can send e-mails to multiple users when schedule, alarm in, or motion detection occurred.

Mail to				
Send to Administrator			<input checked="" type="radio"/> ON <input type="radio"/> OFF	
No.	E-mail Address	Send Condition		
		Schedule	Alarm	Motion
1	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7.5.4 NAS recording

This is a method to store data on a network-based storage device.



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NAS Recording

NAS Settings

☐ Schedule
☐ Alarm
☐ Motion

☒ NFS
☐ CIFS

Server

User ID

Password

Password (Confirm)

Path

Save

- Choose record condition:
Select the condition for NAS recording: recording by **Schedule**, **Alarm** or **Motion** to trigger the recording session.
If **Schedule** mode is selected, the data can be stored on the NAS storage in JPEG format only, however both JPEG and MPEG format are available for **Alarm** and **Motion** conditions.
- After the recording condition has been selected, the corresponding detailed recording field appears. There you can select further conditions which you need to complete the record condition setup.
- Select NAS mode, two modes – NFS and CIFS – are available.
NFS is for network storage device operating in UNIX systems
CIFS is for Windows systems.
- Fill in the storage device's address, the user ID, password, data path where the data is to be stored in the **Server**, **User ID**, **Password** and **Path** fields, respectively.
- Click the "SAVE" button to complete the NAS setup procedure.

● Scheduled Recording

Scheduled Recording				
Day	Recording Schedule			
	Stop	All Day	Schedule 1	Schedule 2
Monday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tuesday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Wednesday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Thursday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Friday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Saturday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sunday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Schedule 1	Start: 8 <input type="text"/> a.m. <input type="text"/>	- Stop: 5 <input type="text"/> p.m. <input type="text"/>		
Schedule 2	Start: 8 <input type="text"/> a.m. <input type="text"/>	- Stop: 5 <input type="text"/> p.m. <input type="text"/>		
Recording Cycle	60 <input type="text"/> seconds			

Determine the recording condition: STOP, all day, schedule 1 or schedule 2 from the recording schedule table for all days from Monday to Sunday.

● Recording by Alarm

Recording by Alarm	
Record Source	<input checked="" type="radio"/> JPEG <input type="radio"/> MPEG4
Recording Frame	10 <input type="text"/>
Recording Cycle	1 <input type="text"/> s
Recording Time	5 <input type="text"/> s

Configure "Alarm input setting" first.

Then select the recording format:

- Record source: choose JPEG or MPEG4 format
- Recording frame
 - Set the number of images to be recorded immediately after an alarm occurs. Images of the moment when an alarm occurs are not included.
 - 1, 2, 5, 10, 30 and 60 frames can be selected if JPEG format selected. No need for MPEG4 format
- Recording cycle
 - Set a time interval for alarm recording 1, 2, 5, 10, 30, 60, 90, 120 s can be selected for JPEG format, no need for MPEG4 format
- Recording time:
 - If MPEG4 is selected, please set the recording time to 2, 5, or 10 s.

● Recording by Motion

Recording by Motion	
Record Source	<input checked="" type="radio"/> JPEG <input type="radio"/> MPEG4
Recording Frame	10 <input type="text"/>
Recording Cycle	1 <input type="text"/> s
Recording Time	5 <input type="text"/> s


Configure "Motion Detection Setting" first.

All the other settings are same as recording by alarm as above.



NOTE

Make sure all NAS devices are ready on the network before activating this function.



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Camera - Audio Settings

Audio Input

Audio Input	<input type="radio"/> ON <input checked="" type="radio"/> OFF
Audio Input Level	High v

Connect a 3.5 mm plug-in microphone to the MIC IN jack of the camera.

Audio Output

Audio Output	<input type="radio"/> ON <input checked="" type="radio"/> OFF
Audio Output Level	Mid v

Connect the 3.5 mm plug of the amplified speaker to the AUDIO OUT jack of the camera.

Save

You can set up your audio settings by enabling audio input and output.

Audio input

- Audio Input:
 - ON: The external microphone input or integrated microphone is active
 - OFF: The external microphone input or integrated microphone is deactivated.
- Audio Input Level:
 - HIGH: Increased audio input level.
 - LOW: Reduced audio input level.

Audio output


- Audio Output:
 - ON: The audio output is activated
 - OFF: The audio output is deactivated.
- Audio Output Level:
 - HIGH: Increased audio output level.
 - MIDDLE: Adjusts the audio output level to a medium level.
 - LOW: Reduced audio output level



NOTE

Please use an external audio amplifier or loudspeaker with integrated amplifier for increased volume.

7.7 Date/Time



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Date and Time

Set Display and Synchronization Mode

Display	<input checked="" type="radio"/> ON <input type="radio"/> OFF
Synchronization Mode	<input type="radio"/> Manual <input type="radio"/> NTP <input checked="" type="radio"/> Synchronization from PC

Set Date and Time Manually

Date and Time
 Date: Nov 13 20 0 8
 Time: 6 : 25 : 44 pm


Set Date and Time By NTP Server

Time Zone	GMT +2 Athens, Istanbul, Minsk
NTP Server	<input style="width: 100%;" type="text"/>
Time Adjustment Period	On camera boot and at 6-hour intervals

- **Display**
Check “ON” to display date/time on screen; the position and colour can be set on the camera OSD menu.
- **Synchronization mode**
 - **Manual:**
Input the date and time to set up system time.
 - **NTP:**
You can also enable Network Time Protocol (NTP) by NTP server. Input a host name for NTP server, select time adjustment period, and click the “save and test” button to start testing NTP function.
 - **Synchronization from PC:**
System date/time can be synchronized from PC setting.
- **Daylight**
Select ON to active Daylight-saving function if you are in Daylight-saving time zone (effective for NTP mode only).

Synchronization Mode	<input type="radio"/> Manual <input checked="" type="radio"/> NTP <input type="radio"/> Synchronization from PC
Set Date and Time Manually	
Date and Time	Date: Oct 9 2008 Time: 5 : 33 : 9 pm
Set Date and Time By NTP Server	
Time Zone	GMT +2 Athens, Istanbul, Minsk
NTP Server	
Time Adjustment Period	On camera boot and at 6-hour intervals
NTP Time Adjustment Test	Save & Test
Daylight	
Daylight saving	<input checked="" type="radio"/> ON <input type="radio"/> OFF

7.8 Access protection



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Change administrator ID and password for administration screen login

Administrator	
User ID	admin
Password	•••••
Password (Confirm)	•••••
Language	English
Logoff Time	OFF

Save

7.8.1 Administrator

Administrator Functions

Select **Administrator** in the **Configuration** menu. You can set up system password, user language and logoff time.

Password

The default setting for system Admin ID and password is:

- User ID: admin
- Password: admin

You can adjust your own Admin ID and password in this field

- Language: English

There are 10 languages for end user selection.

7.8.2 User list

Besides the administrator, general users can be authorized by the system administrator to access the camera.

The administrator can add additional ID and password in the **User Settings** field.

User level:


- **Advanced user** can see the live picture and do basic operation like PTZ control, and Preset setting from buttons on bottom of screen.
- **User** can see the live picture only, no authorization to do any operation.

Change user ID and password for user screen login

User Settings		
ID	<input type="text"/>	
Password	<input type="text"/>	Password (Confirm) <input type="text"/>
Level	<input checked="" type="radio"/> Advanced User <input type="radio"/> User	
Language	English <input type="button" value="v"/>	
<input type="button" value="Reset"/> <input type="button" value="Add"/> <input type="button" value="Remove"/>		

User List		
ID	Level	Language

7.9 Firewall



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IP Address Filter Settings

Allowed/Denied

Function

☒ OFF
☐ Allowed
☐ Denied

IP Address List

No.	IP Address	Enable
1	<input type="text"/>	<input type="radio"/> ON <input checked="" type="radio"/> OFF
2	<input type="text"/>	<input type="radio"/> ON <input checked="" type="radio"/> OFF
3	<input type="text"/>	<input type="radio"/> ON <input checked="" type="radio"/> OFF
4	<input type="text"/>	<input type="radio"/> ON <input checked="" type="radio"/> OFF
5	<input type="text"/>	<input type="radio"/> ON <input checked="" type="radio"/> OFF

7.9.1 IP Address Filter

Enter the IP addresses which are to be processed by the firewall system into the IP address field. Up to 10 addresses can be set.

Enable the IP address which is going to be processed by the firewall filter.

Choose Allowed or Denied or OFF,

- Allowed: all the IP addresses enabled in the list are allowed to access the camera.
- Denied: all the IP addresses enabled in the list shall be rejected by the firewall.

7.9.2 Forbidden Ports

All the ports listed and enabled will be forbidden to pass the firewall.

Camera - Forbidden Ports Settings

Forbidden Ports		
No..	Port	Enable
1	<input type="text"/> (1-65535)	<input type="radio"/> ON <input checked="" type="radio"/> OFF
2	<input type="text"/> (1-65535)	<input type="radio"/> ON <input checked="" type="radio"/> OFF

7.9.3 Forbidden Protocol

ICMP or UDP protocol can be rejected by firewall if assigned.

Camera - Forbidden Protocol Settings

Forbidden Protocol		
Forbid ICMP	<input type="radio"/> ON	<input checked="" type="radio"/> OFF
Forbid UDP	<input type="radio"/> ON	<input checked="" type="radio"/> OFF

7.10 System

7.10.1 Setting

CGI-Lock is a system security setting. It means you can activate or deactivate the login data for the CGI-commands. If you set ON, you always have to enter an ID and password for the web-page, but besides you can change everything using the cgi-commands. Otherwise, it's not necessary for the login data if you choose OFF.

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System Setting

System Setting	
CGI-Lock	<input type="radio"/> ON <input checked="" type="radio"/> OFF

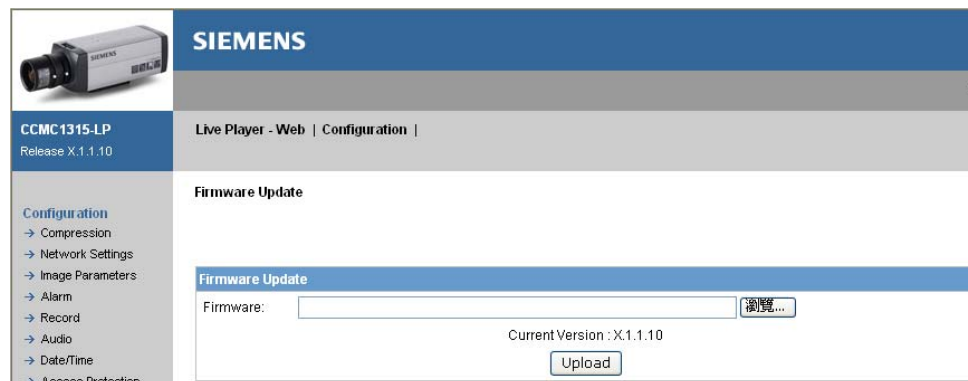
7.10.2 Update

You can update system firmware once the update file is available. It is the customer's responsibility to update firmware. All camera motions will shut down during firmware update. Close any other screens before starting a firmware update. Never disconnect power and LAN cable during the firmware update process. Rebooting the camera after firmware update may take approx. 15 minutes.



SIGNALWORT

The power supply to the camera must not be interrupted during the SW update. Otherwise the camera will be damaged and have to be returned to the workshop for repair.



7.10.3 Configuration

Camera configuration information can be exported and saved to a personal computer. It can also be imported from the personal computer to network cameras.

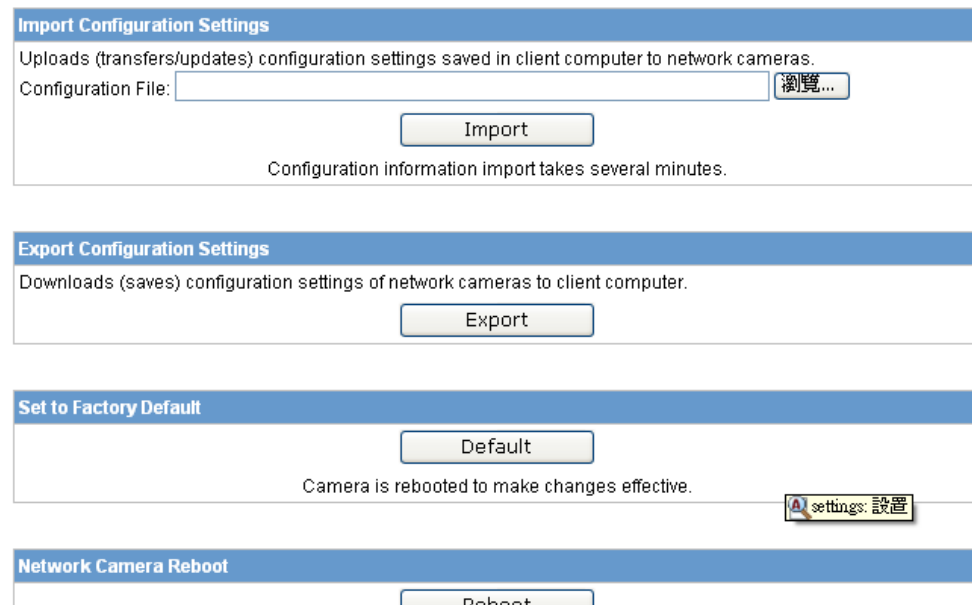
- Export – Click on “Export” button and choose a file directory to save file in your computer.
- Import – Click on “Import” button and select the configuration setting file to start importing file to your network camera.
- Factory Default – Clicking the Default button in the setup screen; the configuration Information resets all values to factory default.



NOTE

Basic network settings will not be reset.

- Network camera reboot – Click the Reboot button and a the confirmation message "This will reboot the camera. Are you sure?" will be displayed. Click "OK" to reboot the network camera.



7.10.4 Backfocus

Click the “Adjust” button, the IRIS of the lens will fully open and a live picture screen will pop up. Now you can start to adjust the lens back focus and set up the most detailed video picture using the back focus wheel at the front of the camera (see Fig. 1). Click the “close” button to exit the screen when finishing the session.

Camera Back Focus

Back Focus	
	<input type="button" value="Adjust"/>

7.10.5 Remote

Set the baud rate and address of the telemetry device for control via the RS485 port.

Camera - Remote Settings

Remote	
Remote	9600 <input type="button" value="v"/>
Baud Rate	1 (0-255)
<input type="button" value="Save"/>	

7.10.6 Temperature

There are two display types for temperature. The internal temperature of the camera is displayed. If a temperature notification interval has been set an e-mail notice will be delivered continuously. If the notification interval is set to "0", the e-mail notice will be delivered only once.

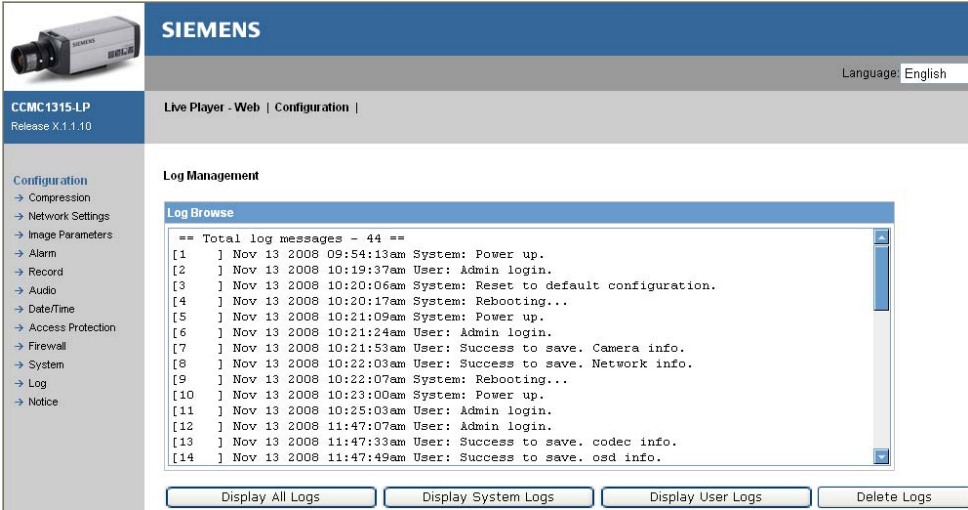
Camera - Temperature Settings and Display

Temperature Settings and Display	
Display Type	<input checked="" type="radio"/> C <input type="radio"/> F
Temperature	38°C
Temp. notification Interval	1 <input type="button" value="v"/> min
<input type="button" value="Save"/>	

7.11 Log

Event Log

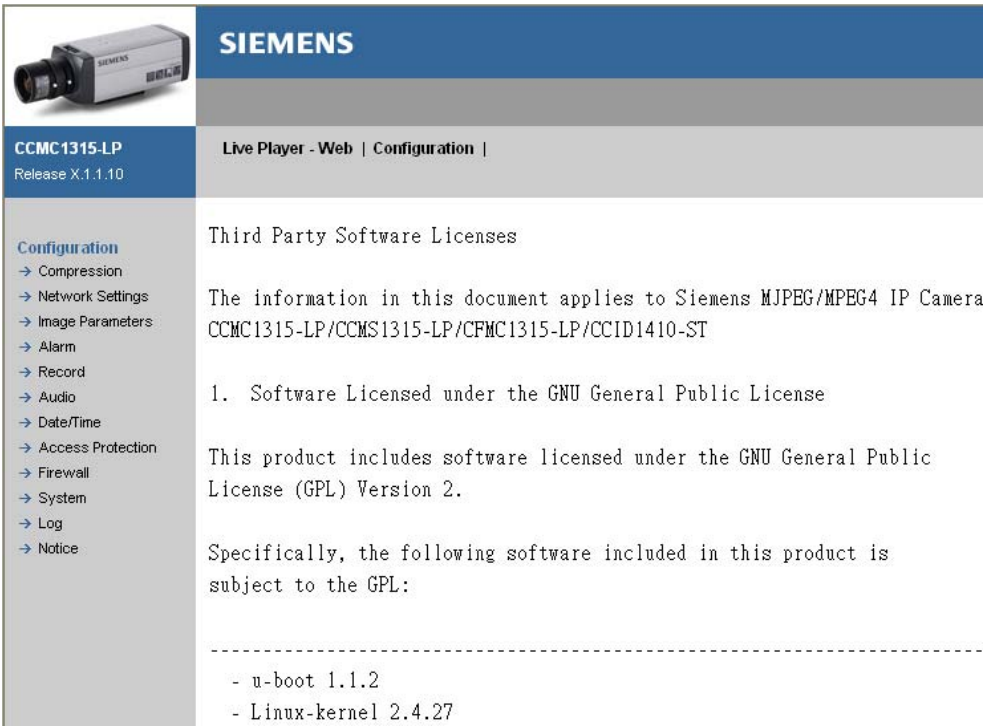
Select **Log** in the **Configuration** menu.
You can click the icons on the bottom to see and process the logs, such as:
“display all logs”, “display system logs”, “display user logs”....



7.12 Notice

This dialog shows all licenses information for the camera.

Information



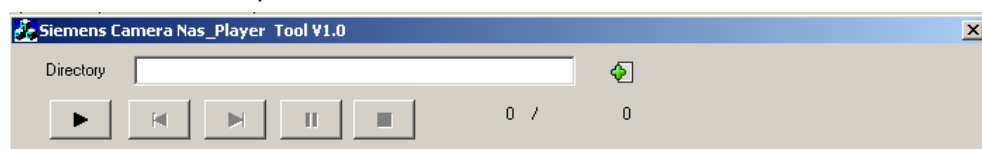
8 Utility program application

8.1 NAS player setup

Playing back NAS file

This application is found on the CD included in the delivery.

1. Execute NAS record setup first.
2. Click on the cross cursor button and choose the path of the NAS file to be played.
3. Click on the Play button.
4. Click on the Stop button.

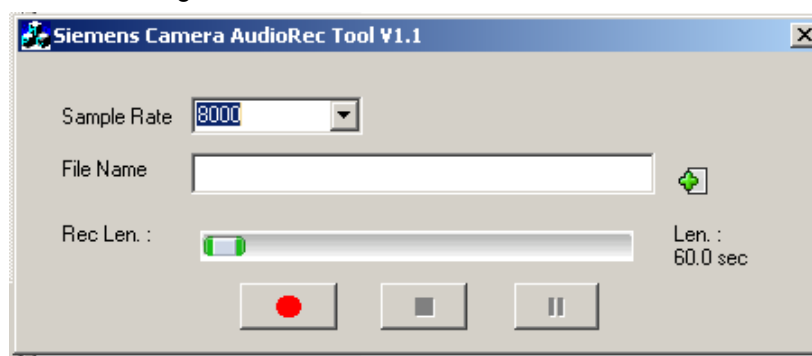


8.2 Audio record setup

This application is found on the CD included in the delivery. You can record a new voice file, then upload it to the network camera. It can make an alarm out event. After you finish audio record, please perform alarm audio setting.

Perform audio recording in the following sequence

1. Execute audio record setup first.
 2. Click on the cross cursor button and choose the path where you want to save the *.wav file.
 3. Install a speaker before you start recording your voice.
 4. Click on red button and start recording your voice.
 5. Click on Stop button.
- Recording is now finished.



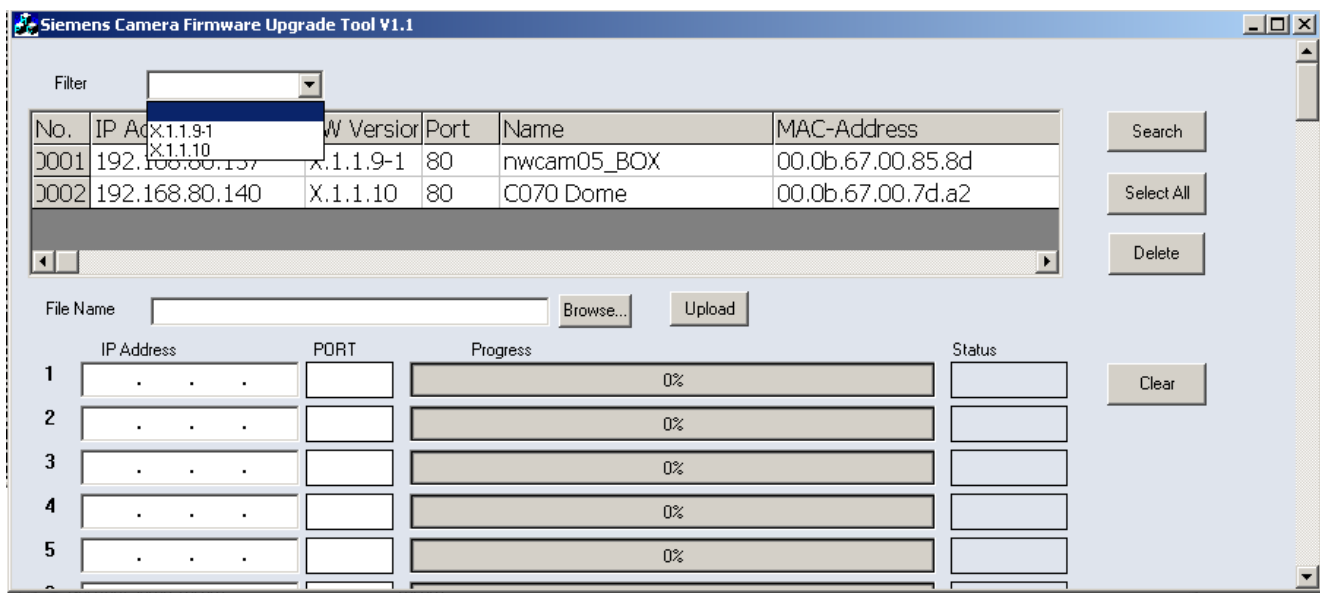
8.3 Firmware update setup

This application is found on the CD included in the delivery. You can update multi-network cameras synchronously.

Perform firmware update in the following sequence

1. Execute firmware update setup first.
2. Select filter SW version.
3. Click on the network camera you want to update. 100 pcs network camera are supported for firmware update.
4. Click on the Browser button and choose the network camera SW version.
5. Click on the Upload button for firmware update.

→ The update is now finished.



9 Maintenance

Defective modules should be sent to the nearest Siemens office to be forwarded to the service centre.

10 Disposal



All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.

If this symbol showing a crossed-out trash can is displayed on a product, that product is subject to the EU Directive 2002/96/EC.

The correct disposal and separate collection of your old appliance will help prevent potential negative consequences for the environment and human health. It is a precondition for reuse and recycling of used electrical and electronic equipment. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.

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